



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/632,534
Source: O.P.E.
Date Processed by STIC: 8-12-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/632,534

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 X Use of <220> Sequence(s) 1,19 missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/632,534

DATE: 08/12/2003

TIME: 07:32:26

Input Set : E:\AMBI065US.APP.txt

Output Set: N:\CRF4\08122003\J632534.raw

3 <110> APPLICANT: WINKLER, MATTHEW M.
4 BROWN, DAVID
6 <120> TITLE OF INVENTION: COMPETITIVE AMPLIFICATION OF FRACTIONATED TARGETS FROM
7 MULTIPLE NUCLEIC ACID SAMPLES
9 <130> FILE REFERENCE: AMBI:065US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/632,534
12 <141> CURRENT FILING DATE: 2003-07-31
W--> 14 <140> CURRENT APPLICATION NUMBER: PCT/US02/03169
W--> 15 <141> CURRENT FILING DATE: 2003-07-31
W--> 17 <140> CURRENT APPLICATION NUMBER: 60/265,692
W--> 18 <141> CURRENT FILING DATE: 2003-07-31
20 <160> NUMBER OF SEQ ID NOS: 24
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 21
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
W--> 29 <220> FEATURE:
W--> 29 <223> OTHER INFORMATION:
W--> 29 <400> 1
30 ggtgttctcc atgtcctttg t 21
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 21
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
40 Primer
42 <400> SEQUENCE: 2
43 ttggggaact gggcagactc a 21
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 23
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
53 Primer
55 <400> SEQUENCE: 3
56 caaacctctg gaggaagtgc taa 23
59 <210> SEQ ID NO: 4
60 <211> LENGTH: 23
61 <212> TYPE: DNA
62 <213> ORGANISM: Artificial Sequence

Handwritten notes:
Only one <140> / <141>
These are prior application numbers
<150>, <151>
See item 11 on error summary report.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/632,534

DATE: 08/12/2003

TIME: 07:32:26

Input Set : E:\AMBI065US.APP.txt

Output Set: N:\CRF4\08122003\J632534.raw

64 <220> FEATURE:
65 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
66 Primer
68 <400> SEQUENCE: 4
69 gtgggaagca cttaattatc aag 23
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 23
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
79 Primer
81 <400> SEQUENCE: 5
82 ccttggtgcgg ttgtgttctc att 23
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 23
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
92 Primer
94 <400> SEQUENCE: 6
95 tctcacacat ccctaggaac cag 23
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 23
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
105 Primer
107 <400> SEQUENCE: 7
108 tgctgcctcc aagaacacaa ctg 23
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 23
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
118 Primer
120 <400> SEQUENCE: 8
121 catgatcgtc tttagccttt cca 23
124 <210> SEQ ID NO: 9
125 <211> LENGTH: 21
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
131 Primer
133 <400> SEQUENCE: 9

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/632,534

DATE: 08/12/2003
TIME: 07:32:26

Input Set : E:\AMBI065US.APP.txt
Output Set: N:\CRF4\08122003\J632534.raw

```
134 tcgaactctg ctgatagcca a 21
137 <210> SEQ ID NO: 10
138 <211> LENGTH: 23
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
144 Primer
146 <400> SEQUENCE: 10
147 gcagtaaaat gtccttctcc tcc 23
150 <210> SEQ ID NO: 11
151 <211> LENGTH: 22
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
157 Primer
159 <400> SEQUENCE: 11
160 gtgaagccca accaacaag ag 22
163 <210> SEQ ID NO: 12
164 <211> LENGTH: 22
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
170 Primer
172 <400> SEQUENCE: 12
173 ttggaggatg cagctaaagt tc 22
176 <210> SEQ ID NO: 13
177 <211> LENGTH: 26
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
183 Primer
185 <400> SEQUENCE: 13
186 ctgtaatacg actcactata gggaga 26
189 <210> SEQ ID NO: 14
190 <211> LENGTH: 27
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
196 Primer
198 <400> SEQUENCE: 14
199 ctgatttagg tgacactata gaagagt 27
202 <210> SEQ ID NO: 15
203 <211> LENGTH: 61
204 <212> TYPE: DNA
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/632,534

DATE: 08/12/2003
TIME: 07:32:26

Input Set : E:\AMBI065US.APP.txt
Output Set: N:\CRF4\08122003\J632534.raw

205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
209 Primer
211 <220> FEATURE:
212 <221> NAME/KEY: modified_base
213 <222> LOCATION: (60)
214 <223> OTHER INFORMATION: V = A, G or C
216 <400> SEQUENCE: 15
217 gctgatggcg atgaatgaac actgtaatac gactcactat agggagattt ttttttttv 60
W--> 218 n *Dunexplained, see page 6* 61
221 <210> SEQ ID NO: 16
222 <211> LENGTH: 61
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
228 Primer
230 <220> FEATURE:
231 <221> NAME/KEY: modified_base
232 <222> LOCATION: (60)
233 <223> OTHER INFORMATION: V = A, G or C
235 <400> SEQUENCE: 16
236 gctgatggcg atgaatgaac actgatttag gtgacactat agaagagttt ttttttttv 60
W--> 237 n 61
240 <210> SEQ ID NO: 17
241 <211> LENGTH: 168
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
247 Primer
249 <400> SEQUENCE: 17
250 taatacgact cactataggg ttccgggctta ggctccagtg cctgttcggt ggtcgcggcg 60
251 ctgatggcga tgaatgaaca ctgcggcaag ccgcttaatg acactcgttt gctggctttg 120
252 atgggcgagc tggaaggccg tatctccggc agcattcatt acgacaaa 168
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 24
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
262 Primer
264 <400> SEQUENCE: 18
265 gctgatggcg atgaatgaac actg 24
268 <210> SEQ ID NO: 19
269 <211> LENGTH: 21
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/632,534

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TIME: 07:32:26

Input S t : E:\AMBI065US.APP.txt
Output Set: N:\CRF4\08122003\J632534.raw

W--> 273 <220> FEATURE:
W--> 273 <223> OTHER INFORMATION:
W--> 273 <400> 19
274 ggtgttctcc atgtcctttg t 21
277 <210> SEQ ID NO: 20
278 <211> LENGTH: 23
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
284 Primer
286 <400> SEQUENCE: 20
287 caaacctctg gaggaagtgc taa 23
290 <210> SEQ ID NO: 21
291 <211> LENGTH: 23
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
297 Primer
299 <400> SEQUENCE: 21
300 ccttgtgcgg ttgtgttctc att 23
303 <210> SEQ ID NO: 22
304 <211> LENGTH: 23
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
310 Primer
312 <400> SEQUENCE: 22
313 tgctgcctcc aagaacacaa ctg 23
316 <210> SEQ ID NO: 23
317 <211> LENGTH: 21
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
323 Primer
325 <400> SEQUENCE: 23
326 tcgaactctg ctgatagcca a 21
329 <210> SEQ ID NO: 24
330 <211> LENGTH: 22
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
336 Primer
338 <400> SEQUENCE: 24
339 gtgaagccca accaacaag ag 22

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/632,534

DATE: 08/12/2003
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Input Set : E:\AMBI065US.APP.txt
Output S t: N:\CRF4\08122003\J632534.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; N Pos. 61
Seq#:16; N Pos. 61

error explanation

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:1,19

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/632,534

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Input Set : E:\AMBI065US.APP.txt

Output Set: N:\CRF4\08122003\J632534.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:14 M:280 W: Numeric Identifier already exists, <140> found multiple times
 L:14 M:281 W: Numeric Fields not Ordered, <140> not ordered!.
 L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:15 M:280 W: Numeric Identifier already exists, <141> found multiple times
 L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:17 M:280 W: Numeric Identifier already exists, <140> found multiple times
 L:17 M:281 W: Numeric Fields not Ordered, <140> not ordered!.
 L:17 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:18 M:280 W: Numeric Identifier already exists, <141> found multiple times
 L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:29 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:1, <213>
 ORGANISM:Artificial Sequence
 L:29 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:1, <213>
 ORGANISM:Artificial Sequence
 L:29 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:29
 L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60
 L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
 L:273 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:19, <213>
 ORGANISM:Artificial Sequence
 L:273 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:19, <213>
 ORGANISM:Artificial Sequence
 L:273 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:19,Line#:273